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and moving-picture entertainments, are closed. These precautions have appeared to have a very favorable effect in stopping the outbreaks.

Several autopsies have been made and many animal inoculations and insect experiments by the pathologist, Dr. Stone. So far there has developed nothing new or significant.

This board is securing all data obtainable about the cases through field work by its inspector, Dr. H. A. Ladd, and a more complete history of the outbreak will be possible later.

PLAGUE-ERADICATIVE WORK.

CALIFORNIA.

The following report of plague-eradication work in California for the week ended October 3, 1914, has been received from Surg. Long, of the United States Public Health Service, in charge of the work:

SAN FRANCISCO, CAL.		RATS TAKEN FROM STEAMERS.	
Number of premises inspected.....	1,147	Steamer <i>Matsonia</i>	7 mus rattus
Number of premises destroyed.....	28	PORT COSTA, CAL.	
Number of nuisances abated.....	259	Rats trapped in warehouses.....	26
Number of poisons placed.....	29,900	Rats trapped on waterfront.....	10
Average number of traps set daily.....	1,734	Rats trapped in sugar refinery.....	66
RATS COLLECTED AND EXAMINED FOR PLAGUE.		Rats examined.....	72
Collected.....	593	Amount of poisoned barley placed on hills (pounds).....	5
Found dead.....	3	Amount of poisoned bread placed in sugar refinery (pounds).....	4
Examined.....	434	Amount of poisoned bread placed in warehouses (pounds).....	2
Found infected.....	None.	RATS IDENTIFIED.	
RATS IDENTIFIED.		Mus norvegicus.....	34
Mus norvegicus.....	291	Mus musculus.....	13
Mus musculus.....	85	Mus alexandrinus.....	25
Mus alexandrinus.....	137	Mus rattus.....	41
Mus rattus.....	80		

Record of plague infection.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	None.....	338 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	do.....	126 rats.
Berkeley.....	Aug. 28, 1907	None.....	do.....	None.
Los Angeles.....	Aug. 11, 1908	do.....	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).....	Sept. 24, 1909	Oct. 17, 1909 ¹	Aug. 7, 1914	288 squirrels, 1 wood rat.
Contra Costa.....	May 17, 1914	None.....	Aug. 25, 1914	1,563 squirrels.
Fresno.....	None.....	do.....	Oct. 27, 1911	1 squirrel.
Merced.....	do.....	do.....	July 12, 1911	5 squirrels.
Monterey.....	do.....	do.....	Apr. 10, 1914	6 squirrels.
San Benito.....	June 4, 1913	do.....	July 3, 1914	35 squirrels.
San Joaquin.....	Sept. 18, 1911	do.....	Aug. 26, 1911	18 squirrels.
San Luis Obispo.....	None.....	do.....	Jan. 29, 1910	1 squirrel.
Santa Clara.....	Aug. 31, 1910	do.....	July 23, 1913	25 squirrels.
Santa Cruz.....	None.....	do.....	May 17, 1910	3 squirrels.
Stanislaus.....	do.....	do.....	June 2, 1911	13 squirrels.

¹ Wood rat.

Squirrels collected and examined for plague.

County.	Shot.	Exam- ined.	Found infected.
Alameda.....	36	36	None.
San Benito.....	108	108	None.
Contra Costa.....	350	350	None.
Total.....	494	494	None.

Other animals collected and examined for plague.

Contra Costa County:

Weasel.....	1
Gopher.....	1

Ranches inspected and hunted over.

Alameda County.....	5
Contra Costa County.....	66
San Benito County.....	22
Total.....	93

Operations on waterfront.

Vessels inspected for rat guards.....	25
Reinspections made on vessels.....	18
New rat guards procured.....	29
Defective rat guards repaired.....	9
Vessels on which cargo was inspected.....	4

	Condition.	Rat evidence.
Steamer Matsonia from Hilo:		
20 bales hemp.....	O. K.....	None.
150 bunches bananas.....	O. K.....	None.
133 cases pineapples and empty cases.....	O. K.....	None.
Steamers Governor, Admiral Schley, and Congress:		
230 bags raw glue, bran, and flour.....	O. K.....	None.
250 boxes apples.....	O. K.....	None.
300 cases milk, tea, and empty cases.....	O. K.....	None.
20 crates household goods.....	O. K.....	None.
75 bales hides.....	O. K.....	None.
400 sacks flour and wheat.....	O. K.....	None.

Rats trapped on wharves and water front..	23	Poisons placed on water front (pieces).....	16,500
Rats trapped on vessels.....	21	Bait used on water front and vessels, bacon	
Traps set on wharves and water front.....	194	(pounds).....	6
Traps set on vessels.....	129	Amount of bread used in poisoning water	
Vessels trapped on.....	9	front (loaves).....	55
Vessels searched for dead rats after fumiga- tion.....	2	Pounds of poison used on water front.....	27½
Dead rats found on vessels after fumiga- tion.....	7		

Operations are being carried on under Federal supervision on the following-named properties, labor and material being furnished:

Name.	Location.	Acres treated.
Poisoned grain:		
Moraga Co.....	Contra Costa County.....	1,330.58
Hooper Co.....	do.....	784.35
Peoples Water Co.....	do.....	3,260.00
G. A. Cressey ranch.....	Merced County.....	2,320.00
Ramsdell ranch.....	do.....	160.00
Grimes ranch.....	do.....	40.00
Chida ranch.....	do.....	20.00
Birchael ranch.....	do.....	40.00
Holland ranch.....	do.....	40.00
Destructors:		
Southern Pacific Co.....	do.....	1 41

1 Miles treated.

MERCED COUNTY.

Miles of railroad right of way inspected.....	41
Holes treated.....	2,739

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, San Joaquin, Monterey, Merced, Stanislaus, San Benito, Santa Cruz, and Santa Clara.

LOUISIANA—NEW ORLEANS.

The following report of plague-eradivative work in New Orleans for the week ended October 10, 1914, has been received from Asst. Surg. Gen. Rucker, of the United States Public Health Service, in charge of the work:

OUTGOING QUARANTINE.		DESTINATION AND NUMBER OF RAILROAD CARS INSPECTED WEEK ENDING OCT. 10—continued.	
Vessels fumigated with sulphur.....	68	Illinois.....	414
Vessels fumigated with carbon monoxide.....	15	Indiana.....	39
Pounds of sulphur burned.....	9,619	Iowa.....	59
Coke consumed in carbon monoxide fumigation (pounds.).....	32,000	Kansas.....	17
Clean bills of health issued.....	26	Kentucky.....	30
Foul bills of health issued.....	6	Louisiana.....	1,259
OVERLAND FREIGHT INSPECTION.		Maryland.....	3
Cars inspected and passed.....	1,226	Massachusetts.....	13
Cars rat proofed.....	2,206	Michigan.....	28
Cars condemned.....	18	Minnesota.....	4
Total cars inspected.....	3,450	Mississippi.....	510
DESTINATION AND NUMBER OF RAILROAD CARS INSPECTED WEEK ENDING OCT. 10.		Maine.....	2
Alabama.....	104	Missouri.....	160
Arizona.....	1	Nebraska.....	3
Arkansas.....	26	New York.....	10
California.....	44	Ohio.....	78
Carolina, North.....	7	Oklahoma.....	6
Carolina, South.....	5	Oregon.....	2
Colorado.....	1	Pennsylvania.....	10
Connecticut.....	1	Rhode Island.....	2
Dakota, North.....	3	Tennessee.....	63
Dakota, South.....	2	Texas.....	217
Delaware.....	3	Virginia.....	2
Florida.....	58	West Virginia.....	3
Georgia.....	42	Washington.....	4
		Wisconsin.....	13
		District of Columbia.....	2
		Canada.....	4

FIELD OPERATIONS.

Rats trapped.....	6,404
Premises fumigated.....	30
Premises disinfected.....	669
Premises inspected.....	8,948
Poisons placed.....	139,004
Notices served.....	3,482
Buildings rat proofed during week ended Oct. 10.....	124
Buildings rat proofed to date.....	1,550
Abatements, week ended Oct. 10.....	1,442
Abatements to date.....	10,192
Dead inspected.....	148

LABORATORY OPERATIONS.

Rats examined.....	5,059
Mus norvegicus.....	3,516
Mus alexandrinus.....	70
Mus rattus.....	37
Mus musculi.....	2,144
Unclassified putrid.....	427
Total rodents received at laboratory..	6,194
Number of suspicious rats.....	18
Plague rats confirmed.....	4

Plague rats.

Case No.	Address.	Captured.	Diagnosis confirmed.	Treatment of premises.
178	916 Washington Avenue.....	Sept. 27	Oct. 5	Summary destruction of rat harborage. Rat proofing initiated. Intensive trapping and poisoning.
179 180	In sewer St. Claude and St. Ann. 200 South Rampart Street.....	...do. Oct. 5	...do. Oct. 6	Intensive trapping and poisoning. Fumigation. Summary destruction of rat harborage. Rat proofing initiated. Intensive trapping and poisoning.
181	1013 Magazine Street.....	Sept. 26	...do.	See case 163.

Human plague cases.

Suspicious human cases examined.....	1
Number of human plague cases.....	1
Total number of human cases to date.....	30

Case No.	Name of place of infection.	Date suspicious.	Diagnosis confirmed.	Treatment of premises.
30	1120 Tulane Avenue.....	Sept. 30	Oct. 4	Fumigated. Rat proofing completed.

Total rodents captured to Oct. 10.....	112,716
Total rodents examined to Oct. 10.....	92,104

Rodent cases to Oct. 10, by species:

Mus rattus.....	6
Mus alexandrinus.....	3
Mus norvegicus.....	172
Total rodents cases up to Oct. 10.....	181

WASHINGTON—SEATTLE.

The following report of plague-eradication work in Seattle for the week ended September 26, 1914, has been received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

BAT PROOFING.		WATER FRONT.	
New buildings inspected.....	70	Vessels inspected and histories recorded...	7
Basements concreted, new buildings		Vessels fumigated.....	1
(15).....sq. ft..	43,314	Sulphur used.....pounds..	1,800
Floors concreted, new buildings (21).....sq. ft..	68,972	New rat guards installed.....	18
Yards, etc., concreted, new buildings		Fumigation certificates issued.....	1
(4).....sq. ft..	2,840	Port sanitary statements issued.....	45
Sidewalks concreted (3).....sq. ft..	304	Bills of health for Republic of Panama....	2
Total concrete laid, new build- ings.....sq. ft..	115,430	LABORATORY AND RODENT OPERATIONS.	
New buildings elevated.....	8	Dead rodents received.....	10
Old buildings inspected.....	1	Rodents trapped and killed.....	369
Premises rat proofed.....	40	Total.....	379
Floors concreted, old buildings.....	1	Rodents examined for plague infection....	300
Openings screened.....	32	Rodents proven plague infected.....	None.
Rat holes cemented.....	28	Poison distributed.....pounds..	20
Doors rat proofed.....	6	CLASSIFICATION OF RODENTS.	
Wire screening used.....sq. ft..	850	Mus rattus.....	8
Buildings razed.....	3	Mus alexandrinus.....	64
		Mus norvegicus.....	247
		Mus musculus.....	60

The usual day and night patrol was maintained to enforce fending and rat guarding.

HAWAII.

The following reports of plague-eradication work in Hawaii have been received from Surg. Trotter, of the United States Public Health Service:

Honolulu.

WEEK ENDED SEPTEMBER 26, 1914.

Total rats and mongoose taken.....	466	Classification of rats trapped:	
Rats trapped.....	441	Mus alexandrinus.....	219
Mongoose trapped.....	3	Mus musculus.....	123
Rats found dead (Mus norvegicus).....	1	Mus norvegicus.....	81
Rats killed by sulphur dioxide.....	21	Mus rattus.....	18
Examined microscopically.....	392	Classification of rats killed by sulphur dioxide:	
Under examination.....	0	Mus alexandrinus.....	21
Showing plague infection.....	0		

WEEK ENDED OCTOBER 3, 1914.

Total rats and mongoose taken.....	398	Average number of traps set daily.....	1,085
Rats trapped.....	383	Cost per rat destroyed.....cents..	21
Mongoose trapped.....	14	Last case rat plague, Aiea, 9 miles from Honolulu,	
Rats found dead (Mus alexandrinus)....	1	Apr. 12, 1910.	
Examined microscopically.....	340	Last case human plague, Honolulu, July 12, 1910.	
Under examination.....	0	Last case rat plague Kalopa stable, Paauhau, Ha-	
Showing plague infection.....	0	waii, Aug. 29, 1914.	
Classification of rats trapped:		Last case human plague Paauhau Landing, Hawaii,	
Mus alexandrinus.....	186	Aug. 17, 1914.	
Mus musculus.....	122		
Mus norvegicus.....	60		
Mus rattus.....	15		

Hilo.

WEEK ENDED SEPTEMBER 19, 1914.

Rats and mongoose taken.....	2,111	Rats and mongoose plague infected.....	0
Rats trapped.....	2,063	Classification of rats trapped and found dead:	
Rats found dead.....	3	Mus norvegicus.....	504
Mongoose taken.....	45	Mus alexandrinus.....	324
Rats and mongoose examined macroscopically	2,111	Mus rattus.....	577
Rats and mongoose examined microscopically	0	Mus musculus.....	661
Rats and mongoose examined bacteriologically.....	0		

WEEK ENDED SEPTEMBER 26, 1914.

Rats and mongoose taken.....	1,967	Rats and mongoose plague infected.....	0
Rats trapped.....	1,915	Classification of rats trapped and found dead:	
Rats found dead.....	1	Mus norvegicus.....	481
Mongoose taken.....	51	Mus alexandrinus.....	275
Rats and mongoose examined macroscopically.....	1,967	Mus rattus.....	559
Rats and mongoose examined microscopically.....	0	Mus musculus.....	601
Rats and mongoose examined bacteriologically.....	0	Last case of rat plague, Paauhau Sugar Co.,	
		Aug. 29, 1914.	
		Last case of human plague, Paauhau Sugar	
		Co., Aug. 16, 1914.	

PORTO RICO.

The following is a summary of reports of plague-eradivative work in Porto Rico for the two weeks ended October 3, 1914:

Rodents examined for infection.

	Rats.	Mice.
San Juan.....	182	105
Puerto de Tierra.....	45	16
Santurce.....	428	41
Total.....	655	162